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09/493,121	01/28/2000	Satoshi Miyaguchi	40782-5075	1823
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MORGAN LEWIS & BOCKIUS LLP 1111 PENNSYLVANIA AVENUE NW WASHINGTON, DC 20004			EXAMINER	
			HAYNES, MA	CK NELSON
			ART UNIT	PAPER NUMBER
			2879	
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
		MIYAGUCHI ET AL.
	09/493,121	MIYAGUCHI ET AL.
Office Action Summary	Examiner	Art Unit
	Mack N. Haynes	
The MAILING DATE of this communication a		
eriod for Reply A SHORTENED STATUTORY PERIOD FOR REP		
THE MAILING DATE OF THIS COMMONION. - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rown of NO period for reply is specified above, the maximum statutory perions are to reply within the set or extended period for reply will, by stated and the period of the provision of the maximum statutory perions are period for reply within the set or extended period for reply will, by stated and the provision of the provisions of 37 CFR. - The period for reply is specified above, the maximum statutory period for the period for reply will, by state the provision of the provisions of the	1.136(a). In no event, however, may reply within the statutory minimum of iod will apply and will expire SIX (6) N	ay a reply be timely filed of thirty (30) days will be considered timely. MONTHS from the mailing date of this communication.
Status 1) Responsive to communication(s) filed on _	·	
2h)⊠	This action is non-final.	
Za) This action is that L	a see expect for formal	matters, prosecution as to the merits is
closed in accordance with the practice und Disposition of Claims	doi Expanse 4	ɔ ∪.∪. 11, 4ɔɔ ∪.ఆ. ∠1ɔ.
△NM Claim(s) 1-22 is/are pending in the applica	ation.	
4a) Of the above claim(s) is/are with	ndrawn from consideration	٦.
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5)∐ Claim(s) is/are allowed. 6)⊠ Claim(s) <u>1-22</u> is/are rejected.		
6)⊠ Claim(s) <u>1-22</u> is/are rejected. 7)□ Claim(s) is/are objected to.		
7) Claim(s) is/are objected to: 8) Claim(s) are subject to restriction a	nd/or election requiremen	nt.
Application Papers		
as T = a resistantian is objected to by the Exam	MANUEL.	by the Examiner.
— is/are a)□	accepted or b) objected to	abeyance. See 37 CFR 1.85(a).
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11) The proposed drawing correction filed on _	is: a)[_] approved b	D) disapproved by an
If approved, corrected drawings are required	d in reply to this Office action.	
12)☐ The oath or declaration is objected to by the	не сханшег.	
		C C 8 110(a)_(d) or (f)
13) Acknowledgment is made of a claim for for	foreign priority under 35 U	1.3.C. 8 118(a)-(a) or (i).
a)⊠ All b)□ Some * c)□ None of:		
57 a vis-d agains of the priority docu	uments have been receive	eu.
of the priority doci	uments have been receive	ed in Application No
3. ☐ Copies of the certified copies of th	ne priority documents have	2 (a)).
A planewlodgment is made of a claim for de	lomestic priority under 35 t	0.5.C. 3 115(c) (to a provider
a) ☐ The translation of the foreign langua	~~~ ~~~~!!!!!!!!!! #00!!!!!!!!!!	II Has been received.
Attachment(s)		Interview Summary (PTO-413) Paper No(s).
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-3) Information Disclosure Statement(s) (PTO-1449) Paper	-948) 5) 🔲 N	Interview Summary (PTO-413) Paper No(s): Notice of Informal Patent Application (PTO-152) Other:
3) 🔲 Information Disclosure Statement(s) (F10-1445) Fape		Part of Paper No. 9

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DETAILED ACTION

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S. C. 102(e) by the American Inventors Protection

Act of 1999 (AIPA) do not apply to the examination of this application as the application
being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily
published under 35 U.S.C. 122(b). Therefore, this application is examined under 35

U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1-4 and 9-12 are rejected under 35 U.S.C. 102(e) as being anticipated by Haskal et al. (5,952,778).

With regards to claims 1 and 10, Fig. 2 as well as col. 2, line 20-col. 4, line 65 of Haskal et al. discloses an organic EL cell for preventing moisture that deteriorates the light-emitting characteristics of the organic EL cell as well as a method for manufacturing the organic EL cell, comprising: a substrate (8); a laminate structure formed on the substrate (See col. 3, lines 10-15), wherein the laminate structure

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includes at least an anode (6), an organic light emitting layer (2), a cathode (4); a first sealing film formed on the laminate structure (32 of silicon dioxide, (See col. 3, lines 45-56); and a second sealing film (16 of polyethylene) formed on the first sealing film (See col. 3, lines 57-63).

With regards to claims 2 and 11, Haskal discloses the first sealing film is an inorganic passivation film (silicon dioxide) and the second sealing film is a resin film (polyethylene).

With regards to claims 3 and 12, Fig. 2 of Haskal further comprises a third sealing film (36) formed on the second sealing film, wherein the third sealing film is an inorganic passivation film (See col. 3, lines 64-65 as well as col. 4, lines 58-65, wherein inorganic film is glass which is comprised of silicon dioxide).

With regards to claims 4 and 13, Haskal discloses the first sealing film and the third sealing film as being SiO₂ (See col. 3, lines 45-56 and 64-65, wherein glass is comprised of silicon dioxide).

With regards to claim 9, Fig. 2 of Haskal discloses first and third sealing films.

Note- this claim recites a product-by process limitation; and for product-by process limitations, determination of patentability is based on the product itself (a first sealing film and a third sealing film) and not the process limitation (formed by vapor deposition). More specifically, if a product-by process limitation is the same as or obvious from the product of the prior art, the claim is unpatentable even though the prior product was made by a different process (See MPEP 2113). Consequently, Haskal

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discloses first and third inorganic sealing films which are the same as the applicants' claimed sealing films.

Claims 1, 5, 6-10 and 14-17 are rejected under 35 U.S.C. 102(e) as being anticipated by Suzuki et al. (6,198,217).

With regards to claims 1 and 10, Fig. 1 of Suzuki et al. discloses an organic EL cell for preventing moisture that deteriorates the light-emitting characteristics of the organic EL cell as well as a method for manufacturing the organic EL cell, comprising: a substrate (24); a laminate structure formed on the substrate, wherein the laminate structure includes at least an anode (10), an organic light emitting layer (14), a cathode (18); a first sealing film formed on the laminate structure (20); and a second sealing film formed on the first sealing film (22).

With regards to claims 5 and 14, Suzuki et al. discloses the first sealing film (20) is resin film and the second sealing film (22) is an inorganic passivation film (See col. 5, line 49-col. 6, line 6).

With regards to claims 6 and 15, Fig. 2 of Suzuki et al. discloses the organic EL cell further comprising a third sealing film (30) formed on the second film, wherein the third sealing film is a resin film (See col. 7, lines 49-60).

With regards to claims 7 and 16, Suzuki et al. discloses the second sealing film is selected from a group consisting of silicon nitride, SiO₂, and Al₂O₃ (See col. 7, lines 28).

With regards to claims 8-9, Figs. 1 and 2 of Suzuki et al. disclose a second sealing film (22) as well as a first (20) and a third sealing film (30).

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Note- claims 8-9 recite a product-by process limitation; and for product-by process limitations, determination of patentability is based on the product itself (a first sealing film, a second sealing film and a third sealing film, respectively) and not the process limitation (formed by vapor deposition). More specifically, if a product-by process limitation is the same as or obvious from the product of the prior art, the claim is unpatentable even though the prior product was made by a different process (See MPEP 2113). Consequently, Suzuki et al. discloses first, second and third sealing films that are the same as the applicants' claimed sealing films.

With regards to claim 17, col. 7, lines 20-26 of Suzuki et al. discloses the second sealing film (22) being formed by vapor deposition.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 18-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Suzuki et al. (6,198,217).

With regards to claim 18, col. 6, lines 34-39 of Suzuki et al. disclose the first sealing film (20) being formed by vapor deposition; yet, Suzuki et al. does not specifically discuss the third sealing film (30) being formed by vapor deposition.

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However, the use of vapor deposition in order for the purpose of forming or depositing a layer on a portion of an object is notoriously well known of common knowledge in the art.

Hence, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to use a well known vapor deposition technique to form and deposit the third sealing film of Suzuki et al. over the organic EL cell of Suzuki et al.

With regards to claims 19-22, Suzuki et al. discloses the inorganic passivation film (22) as being comprised of silicon nitride and formed by a vapor deposition technique (See col. 7, lines15-28); yet, Suzuki et al. does not specifically discuss the vapor deposition technique being a plasma CVD method involving a raw material gas composed only of silane and nitrogen.

However, CVD methods involving raw material gas composed of only silane and nitrogen to form and deposit a silicon nitride layer is notoriously well known and of common knowledge in the art.

Thus, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to form the silicon nitride inorganic passivation layer (22) by well known vapor deposition technique such as plasma CVD involving a raw material gas composed of only silane and nitrogen.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Shi et al. (5,811,177), Yamashita et al. ('405 and '204) disclose EL devices that are encapsulated with protective layers.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mack N. Haynes whose telephone number is (703) 308-5460. The examiner can normally be reached on Mon-Fri., 9:00a.m.-5:00p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimeshkumar Patel can be reached on (703) 305-4794. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

MINA

MICHAEL H. DAY PRIMARY EXAMINER